



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Nanda D. Sinha  
Application No.: 09/879,859 Group Art Unit: 1619  
Filed: June 12, 2001 Examiner: Not provided  
Title: Method of Preventing Modification of Synthetic Oligonucleotides

CERTIFICATE OF MAILING	
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Assistant Commissioner for Patents, P.O. Box 2327, Arlington, VA 22202	
on <u>3/8/02</u>	<u>Jessica Lancourt</u>
Date	Signature
<u>Jessica Lancourt</u>	
Typed or printed name of person signing certificate	

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents  
P.O. Box 2327  
Arlington, VA 22202

Sir:

This Information Disclosure Statement is submitted:

☐ under 37 CFR 1.129(a), or

(First/Second submission after Final Rejection)

☒ under 37 CFR 1.97(b), or

(Within any one of the following time periods: three months of filing national application (other than a CPA) or date of entry of the national stage in an international application; or before the mailing date of a first office action on the merits in a non-provisional application, including a CPA, or a Request for Continued Examination).

☐ under 37 CFR 1.97(c) together with either:

☐ a Statement under 37 CFR 1.97(e), as checked below, or

☐ a \$180.00 fee under 37 CFR 1.17(p), or

(After the 37 CFR 1.97(b) time period, but before final action or notice of allowance, whichever occurs first)

☐ under 37 CFR 1.97(d) together with:

☐ a Statement under 37 CFR 1.97(e), as checked below, and

☐ a \$180.00 fee under 37 CFR 1.17(p), or

(Filed after final action or notice of allowance, whichever occurs first, but on or before payment of the issue fee)

☐ under 37 CFR 1.97(i):

Applicant requests that the IDS and cited reference(s) be placed in the application filewrapper.

(Filed after payment of issue fee)

Statement Under 37 CFR 1.97(e)

- ☐ Each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement; or
- ☐ No item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned, after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

Statement Under 37 CFR 1.704(d) (Patent Term Adjustment)  
Applies to original applications (other than design) filed on or after May 29, 2000

- ☐ Each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in § 1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.

☒ Enclosed herewith is form PTO-1449:

☒ Copies of the cited references are enclosed.

☐ Copies of cited references are enclosed except those entered in prior application, U.S. Application No. [ ], to which priority under 35 U.S.C. 120 is claimed. [The earlier application contains copies of the cited references.]

☐ The listed references were cited in the enclosed International Search Report in a counterpart foreign application.

☐ The "concise explanation" requirement (non-English references) for reference(s) [ ] under 37 CFR 1.98(a)(3) is satisfied by:

☐ the explanation provided on the attached sheet.

☐ the explanation provided in the Specification.

☐ submission of the enclosed International Search Report.

☐ submission of the enclosed English-language version of a foreign Search Report and/or foreign Office Action.

☐ the enclosed English language abstract.

☐ Applicant requests that the following non-published pending applications be considered:

Examiner's  
Initials

\_\_\_\_\_ U.S. Patent Application No. [ ], by [inventor(s)], filed [ ], Docket No.: [ ]

\_\_\_\_\_ U.S. Patent Application No. [ ], by [inventor(s)], filed [ ], Docket No.: [ ]

\_\_\_\_\_ U.S. Patent Application No. [ ], by [inventor(s)], filed [ ], Docket No.: [ ]

\_\_\_\_\_  
Examiner

\_\_\_\_\_  
Date

☐ A copy of each above-cited application, including the current claims, is enclosed.

☐ A copy of each above-cited application, including the current claims, is enclosed, except those entered in prior application, U.S. Application No. [ ], to which priority under 35 U.S.C. 120 is claimed.

The Examiner is requested to return a copy of the above list of pending applications indicating which references were considered with the next office communication.

It is requested that the information disclosed herein be made of record in this application.

Method of payment:

☐ A check for the fee noted above is enclosed, or the fee has been included in the check with the accompanying Reply. A copy of this Statement is enclosed.

☐ Please charge Deposit Account 08-0380 in the amount of \$[ ]. A copy of this Statement is enclosed.

☒ Please charge any deficiency in fees and credit any overpayment to Deposit Account 08-0380.

Respectfully submitted,

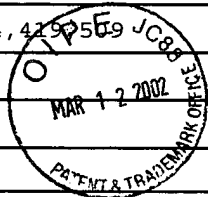
HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

By Theresa A. Devlin  
Theresa A. Devlin  
Registration No.: 45,361  
Telephone: (978) 341-0036  
Facsimile: (978) 341-0136

Concord, MA 01742-9133

Dated: 3/7/02

PTO-1449 REPRODUCED				ATTORNEY DOCKET NO. 2733.1003-001		APPLICATION NO. 09/879,859	
INFORMATION DISCLOSURE CITATION IN AN APPLICATION				APPLICANT Nanda D. Sinha			
March 8, 2002 (Use several sheets if necessary)				FILING DATE June 12, 2001		GROUP 1619	
U.S. PATENT DOCUMENTS							
EXAM- INER INI- TIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
	AA	5,783,690	07/21/98	Cheruvallath, et al.	536	55.3	
	AB	5,760,209	06/02/98	Cheruvallath, et al.	536	25.34	
	AC	5,623,068	04/22/97	Reddy, et al.	536	25.34	
	AD	5,847,106	12/08/98	Ravikumar, et al.	536	25.34	
	AE	5,859,232	01/12/99	Ravikumar	536	25.3	
	AF	5,705,621	01/06/98	Ravikumar	536	23.1	
	AG	5,750,672	05/12/98	Kempe	536	25.31	
	AH	5,518,651	05/21/96	Reddy, et al.	252	193	
	AI	4,419,569	12/06/83	Hsiung, et al.	536	27	
	AJ						
	AK						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
	AL						
	AM						
	AN						
	AO						
	AP						
	AQ						
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	AR	Sinha, N.D., et al., "Polymer support oligonucleotide synthesis XVIII <sup>1,2</sup> : use of $\beta$ -cyanoethyl-N, N-dialkylamino-/N-morpholino phosphoramidite of deoxynucleosides for the synthesis of DNA fragments simplifying deprotection and isolation of the final product," <i>Nucleic Acids Research</i> , 12(11):4539-4557 (1984).					
	AS	Eritja, R., et al., "A Synthetic Procedure for the Preparation of Oligonucleotides Without Using Ammonia and its Application for the Synthesis of the Oligonucleotides Containing O-4-AlkylThymidines," <i>Tetrahedron</i> , 48(20): 4171-4182 (1992).					
	AT	Reese, C.B., et al. "Avoidance of sulfur loss during ammonia treatment of oligonucleotide phosphorothioates," <i>Nucleic Acids Research</i> , 25(14): 2943-2944 (1997).					
EXAMINER				DATE CONSIDERED			



RECEIVED  
 MAR 20 2002  
 TECH CENTER 1600 2900

PTO-1449 REPRODUCED  <b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b>  March 8, 2002  (Use several sheets if necessary)				ATTORNEY DOCKET NO. 2733.1003-001		APPLICATION NO. 09/879,859		TECH CENTER 1600/2300	MAR 20 2002	RECEIVED
				APPLICANT Nanda D. Sinha						
				FILING DATE June 12, 2001		GROUP 1619				
U.S. PATENT DOCUMENTS										
EXAM- INER INI- TIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE			
	AA									
	AB									
	AC									
	AD									
	AE									
	AF									
	AG									
	AH									
	AI									
	AJ									
	AK									
FOREIGN PATENT DOCUMENTS										
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO			
	AL									
	AM									
	AN									
	AO									
	AP									
	AQ									
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)										
	AU	Hsiung, H., et al., "Further improvements on the phosphotriester synthesis of deoxyribooligonucleotides and the oligonucleotide directed site-specific mutagenesis of <i>E. coli</i> lipoprotein gene," <i>Nucleic Acids Research</i> , 11(10):3227-3239(1983).								
	AV									
	AW									
EXAMINER					DATE CONSIDERED					